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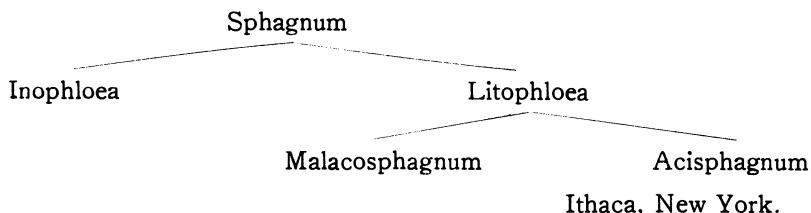
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how impossible it becomes to devise any key that will separate them even by a single constant character.

In this confusion of groups one stands out distinct in general appearance and certain anatomical characters, viz., the *Rigida*. This I have distinguished as an independent section, using the appropriate sectional name given it by Carl Müller in 1887,<sup>4</sup> *Malacosphagnum*. The other groups differ so very little from each other in comparison with their common difference from this group that I have not hesitated to include them in a single section, using for it the sectional name proposed by Carl Müller for the *Cuspidata*, viz. *Acisphagnum*. Of the disposition of its numerous species I shall speak later on.

The most characteristic feature of *Malacosphagnum* is its cortical branch-cells, which are homogeneous, all of the flask or retort type, though the neck may be very short and inconspicuous, while in *Acisphagnum* they are of two sorts, the retort-cells larger and occurring singly or in twos, one above the other, in the axils of the leaves. This difference is noted by Carl Müller (Berol.),<sup>5</sup> but has not previously been made a basis for classification. It forms a clearly recognizable diagnostic character separating two natural groups.

Of the two sections, *Malacosphagnum* seems both in general appearance and in the form and border of its leaves to be the more nearly related to *Inophloea*, without in any way bridging over the gap or invalidating the latter's claim to recognition as a subgenus. My conception of the natural relationship of these groups could be represented thus:



## MUSCI ACROCARPI BOREALI-AMERICANI

Nos. 276-300

Prof. Holzinger's exsiccati continue the high standard set in the earlier fascicles. This fascicle contains six species from the mountains of Colorado, including *Aulacomnium papillosum* (C. M.) Jaeg. and *Grimmia incurvata* Schwaegr. Coll. H. S. Jewett.

Eight from Montana, Coll. R. S. Williams, including *Roellia lucida* (E. G. Britton) Kindb., *Bryum capitellatum* C. M. & Kindb., *Grimmia*

4. Flora **70**; 404 C. M. had used some of his sectional names as substitutes for the current group-names for a number of years prior to this publication.

5. Engler und Prantl, l. c., p. 181, f. 1894.

*Brittoniae* R. S. Williams, from the type station and *Mniobryum atropupureum* (Wahlenb.) Hag.

Three from California, Coll. Kingman, including *Tortula brevipes* (Lesq.) Broth. and *Orthotrichum Bolanderi* Sulliv.

Also *Grimmia Dupreti* Theriot from type station, Coll. Dupret, and other numbers of nearly equal interest.

A. J. Grout.

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## EXCHANGE DEPARTMENT

(To Society members only. Send a *stamped* self-addressed envelope.)

Geo. H. Conklin, M. D., 1204 Tower Ave., Superior, Wis., offers *Lophozia heterocolpa* (Thed.) M. A. Howe from the Duluth-Superior region and *Scapania undulata* (L.) Dum., Coll. H. S. Jewett, from Colorado.

Dr. H. S. Jewett, 15 W. Monument Ave., Dayton, O. *Grimmia calyptrata* Hook. and *Distichum capillaceum* B. & S. from Colorado.

Rev. S. M. Newman, Kee Mar College, Hagerstown, Md. *Leucophanes candidum* (Hsch.) Lindb. Collected in Asia.

Mr. George B. Kaiser, 524 Locust Ave., Germantown, Pa. *Polypodium juniperinum* Willd., *Aulacomnium heterostichum* (Hedw.) B. & S., *Ditrichum pallidum* (Schreb.) Hampe.

Mr. Eikichi Iishiba, Higashi-sichibancho, Sendai, Japan. *Catharina Haussknechtii* Broth. FOR PICTURE POSTAL.

Mrs. Elizabeth M. Dunham, 324 Central Street, Auburndale, Mass., *Leucodon brachypus* Brid. from New Brunswick, *Anomodon attenuatus* (Schreb.) Hueb., and *Trematodon ambiguus* (Hedw.) Hornsch. from the Rangely Lakes.

Mrs. Hugh M. Smith, 78 Orange Street, Brooklyn, N. Y. *Campothecium pinnatifidum* (Sull. & Lesq.) Jaegr. collected Dr. E. A. Mearns, Wyoming. *Weissia curvirostre* C. Müll. var. *commutata* Dixon collected Rev. P. G. M. Rhodes, Wales.

Prof. H. A. Green, Tryon, North Carolina. *Hypnum imponens* Hedw.

Mr. George M. Pendleton, Sisson, Siskiyou Co., California. *Acolium tympanellum* (Ach.) DeNot.; *Rhizocarpon petraeum grande* (Floerke) Fink; *R. oidaleum* (Tuck.) Fink; *R. bolanderi* (Tuck.) Herre, all collected in California.

Mr. George L. Kirk, Rutland, Vermont. *Biatora globifera* (Ach.) Fr.; *Stereocaulon denudatum* Floerke, collected in Vermont.